ELSEVIER

Journal of Contaminant Hydrology 23 (1996) 365–366

JOURNAL OF
Contaminant
Hydrology

Contents Volume 23, 1996

VOL. 23, NOS. 1–2

Research Papers

Three-dimensional analysis of variably-saturated flow and solute transport in discretely-fractured porous media
R. Therrien and E.A. Sudicky 1

Dissolution of non-aqueous-phase liquids and aqueous-phase contaminant transport in discretely-fractured porous media
J.E. VanderKwaak and E.A. Sudicky 45

Uncertainty in deterministic groundwater transport models due to the assumption of macrodispersive mixing: evidence from the Cape Cod (Massachusetts, U.S.A.) and Borden (Ontario, Canada) tracer tests
C.R. Fitts 69

Uncertainty in recharge estimation: impact on groundwater vulnerability assessments for the Pearl Harbor Basin, O'ahu, Hawai'i, U.S.A.
T.W. Giambelluca, K. Loague, R.E. Green and M.A. Nullet 85

Kinetics of BTX biodegradation and mineralization in batch and column systems
W.R. Kelly, G.M. Hornberger, J.S. Herman and A.L. Mills 113

Frozen soil subsurface barriers: formation and ice erosion
O.B. Andersland, D.C. Wiggert and S.H. Davies 133

Numerical correction for finite-difference solution of the advection–dispersion equation with reaction
B. Ataie-Ashtiani, D.A. Lockington and R.E. Volker 149

VOL. 23, NO. 3

Research Papers

A consistent approach for applying numerical boundary conditions for multiphase subsurface flow
Y.S. Wu, P.A. Forsyth and H. Jiang 157

Contaminant migration in the unsaturated soil zone: the effect of rainfall and evapotranspiration
J. Grifoll and Y. Cohen 185

Chromium mobility in freshwater wetlands
R. Mattuck and N.P. Nikolaidis 213

A criterion for gravitational instability in miscible dense plumes
H.H. Liu and J.H. Dane 233

Theoretical evaluation of dissolution and biochemical reduction of TNT for phytoremediation of contaminated sediments
E.A. Voudrias and K.S. Assaf 245

VOL. 23, NO. 4

Research Papers

Anaerobic biodegradation of alkylbenzenes and trichloroethylene in aquifer sediment down gradient of a sanitary landfill
J.J. Johnston, R.C. Borden and M.A. Barlaz 263

Using the multiple cell balance method to solve the problem of two-dimensional groundwater flow and contaminant transport with nonequilibrium sorption
D. Kong and T.C. Harmon 285
A compositional simulator for modeling surfactant enhanced aquifer remediation, 1. Formulation
M. Delshad, G.A. Pope and K. Sepehrnoori 303
Bioremediation of a diesel fuel contaminated aquifer: simulation studies in laboratory aquifer columns
A. Hess, P. Höhener, D. Hunkeler and J. Zeyer 329
Chemical modifications of groundwater contaminated by recharge of treated sewage effluent
A. Vengosh and R. Keren 347

Book Reviews 361